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EXAMINER

HODGE, ROBERT W

ART UNIT

PAPER NUMBER

1795

MAIL DATE

DELIVERY MODE

07/07/2009

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

DETAILED ACTION

Terminal Disclaimer

The terminal disclaimer filed on 5/12/09 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of U.S. Patent Application Nos. 11/265,131 and 11/280,463 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Response to Arguments

Applicant's arguments with respect to claims 1, 2, 8 and 19 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

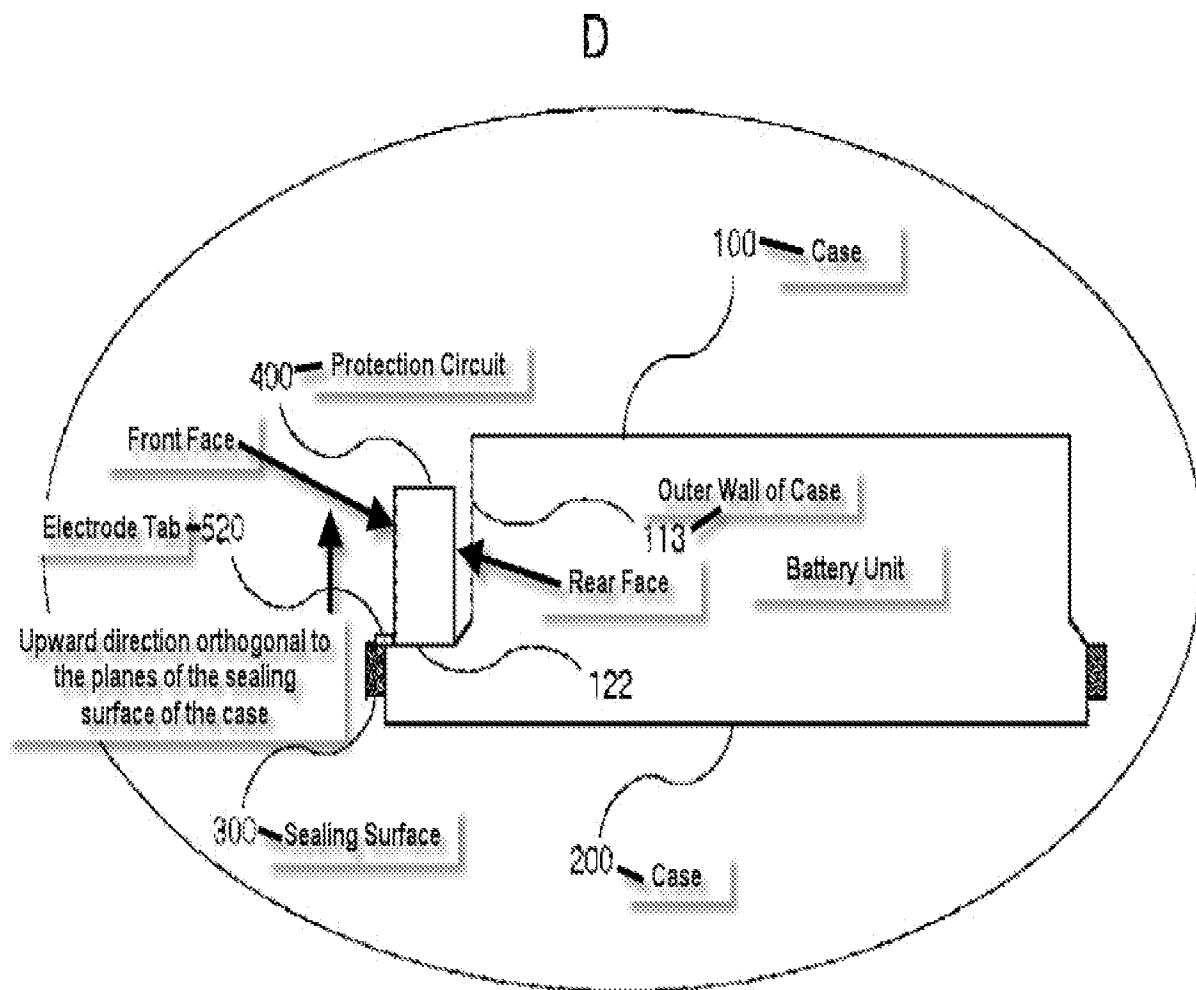
(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2 and 19 are rejected under 35 U.S.C. 102(b) as being anticipated by KR 2002-0074550 hereinafter Jeong.

As seen in the cross-section D of figure 4 Jeong teaches a pouch-type lithium secondary battery comprising: a battery unit comprising: a positive electrode plate, a separator, and a negative electrode plate, wherein the separator is disposed between the positive and negative electrode plates; electrode tabs 510 and 520 extending from

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the positive and negative electrode plates of the battery unit; a case 100 and 200 having a space to accommodate the battery unit and a sealing surface 300 formed along the periphery of the space, a protection circuit board 400 having a front surface and an opposing rear surface and comprising electrode terminals disposed on the front surface, which are directly connected to the electrode tabs which extend through the case and are bent only once at a substantially right angle with respect to the planes of the sealing surfaces at a predetermined length in a thickness direction of the case without extending beyond a thickness of the case, wherein the protection circuit board is disposed between an outer wall of the case and the bent electrode tabs, wherein the electrode tabs are disposed parallel to the outer wall of the case in an upright position and are perpendicular to a contact surface at which the sealing surface is contacted and the electrode tabs connect to the protection circuit board on a side opposite to the outer wall of the case (pages 4 and 5 of the provided English machine translation and as illustrated below).



Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jeong as applied to claim 1 above, and further in view of Applicants' Admitted Prior Art hereinafter AAPA.

Jeong does not teach insulating tape around the electrode tabs.

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As seen in figures 1 and 2 and described in paragraphs [0003]-[0015] of the instant specification, AAPA teaches a pouch type lithium secondary battery 10 comprising a battery unit 11 comprising a positive electrode plate 13, a negative electrode plate 14, a separator 15 disposed between the positive and negative electrode plates, electrode tabs 16 and 17 extending from the respective positive and negative electrode plates, a case 12 having space 12a to accommodate the battery unit, a sealing surface 12b along the periphery of the space, a protection circuit board 100 having a front and rear surface with electrode terminals 101 and 102 that are directly electrically connected to the electrode tabs, the protection circuit board is disposed in an approximately upward position with respect to the planes of the sealing surface of the case such that the rear surface faces the battery unit and the front surface faces away from the battery unit, wherein portions of each of the electrode tabs extend outside the case and are bent in an upward position with respect to a plane of the sealing surface, wherein the electrode tabs are bent at a predetermined length from a leading edge of the sealing surface in a thickness direction of the case, the electrode tabs further comprise insulating tape 18 between the electrode tabs and the sealing surface such that the insulating tape is wrapped around the portions of the electrode tabs bent from a leading edge of the sealing surface.

At the time of the invention it would have been obvious to one having ordinary skill in the art to wrap insulating tape around the electrode tabs of Jeong as taught by AAPA in order to increase the sealing efficiency of the battery. If a technique has been used to improve one device (wrapping insulating tape around the electrode tabs), and a

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person of ordinary skill in the art would recognize that it would improve similar devices in the same way (increasing the sealing efficiency of the battery), using the technique is obvious unless its actual application is beyond his or her skill. See MPEP 2141 (III) Rationale C, KSR v. Teleflex (Supreme Court 2007).

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ROBERT HODGE whose telephone number is (571)272-2097. The examiner can normally be reached on 8:00am - 4:30pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on (571) 272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Robert Hodge/
Examiner, Art Unit 1795